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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,311	08/31/2001	Peter Adebjork	19391.0025	2311
7:	590 12/17/2003		EXAM	INER
Edward A Pennington			ALLEN, ANDRE J	
Swidler Berlin Shereff Friedman 3000 K Street NW Suite 300			ART UNIT	PAPER NUMBER
Washington, DC 20007-5166			2855	

DATE MAILED: 12/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		NU
	Application No.	Applicant(s)
3.5	09/889,311	ADEBJORK ET AL.
Office Action Summary	Examiner	Art Unit
	Andre J. Allen	2855
The MAILING DATE of this communicated Period for Reply	ation appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun. - If the period for reply specified above is less than thirty (30) of the thing of the	ATION. 37 CFR 1.136(a). In no event, however, may a lication. days, a reply within the statutory minimum of thir tory period will apply and will expire SIX (6) MON III, by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed	on <u>election filed 9-24-03</u> .	
2a) This action is FINAL . 2b)	This action is non-final.	
3) Since this application is in condition fo closed in accordance with the practice		
Disposition of Claims		
4)⊠ Claim(s) <u>1-4 and 10-15</u> is/are pending	in the application.	
4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-4 and 10-15</u> is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	l.	
Application Papers	·	
9)☐ The specification is objected to by the	Examiner.	
10) The drawing(s) filed on is/are: a	a)□ accepted or b)□ objected to	by the Examiner.
Applicant may not request that any objecti	** :	
Replacement drawing sheet(s) including the		
11) The oath or declaration is objected to be	by the Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. §§ 119 and 120		24424 \ 40 \ 40
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa * See the attached detailed Office action 13) Acknowledgment is made of a claim for since a specific reference was included 37 CFR 1.78. a) ☐ The translation of the foreign lang 14) Acknowledgment is made of a claim for reference was included in the first sente	ocuments have been received. ocuments have been received in A the priority documents have beer al Bureau (PCT Rule 17.2(a)). for a list of the certified copies not domestic priority under 35 U.S.C. in the first sentence of the specific uage provisional application has be domestic priority under 35 U.S.C.	Application No In received in this National Stage treceived. It is 119(e) (to a provisional application) It cation or in an Application Data Sheet. It is peen received. It is is a specific in the stage of
Attachment(s)	_	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449) Paper	O-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)	Office Action Summary	Part of Paper No. 20031210

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 and 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sicre et al.

Regarding claims 1,3 and 12 Sicre et al. teaches calculating an attitude and correcting it by means of air data and heading (col. 4 lines 60·64). Sicre et al does not clearly teach attitude being calculated on the basis of fixed rates p,q and r (yaw, pitch, roll). Doty teaches attitude being calculated on the basis of fixed rates p,q and r (yaw, pitch, roll) (col. 6 line 45). It would have been obvious to a person having ordinary skill in the art of monitoring aircraft activity at the time the invention was made to modify Sicre et al by using p,q and r rates to determine an aircrafts attitude as taught by Doty for the purpose of observing or determining an aircrafts demeanor since p,q and r (yaw, pitch, roll) are parameters needed to determine an aircrafts attitude.

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Regarding claims 2,3 and 11 Sicre et al does not clearly teach a heading gyro, but Sicre et al does teach obtaining an aircrafts heading (abstract). It would have been obvious to a person having ordinary skill in the art of monitoring aircraft to modify Sicre et al to use a heading gyro over any other means of obtaining the heading due to undo experimentation for the purpose of gathering heading information more effectively.

Regarding claim 4 Sicre et al teaches correction of the integrated out attitude takes place with the aid of attitude calculated on the basis of air data and heading information. (col. 2 lines 45.50, col. 4 lines 60.65, col. 8 lines 55.60)

Regarding claims 10 and 14 Sicre et al teaches a unit (fig. 1) that outputs the aircrafts attitude GPS1 GPS2 (col.4 lines 60·61) from info from the p,q and r (yaw pitch roll) as well as a calculated attitude corrected by means of a reference attitude (col. 3 lines 65·67) from air data and heading. However Sicre et al does not clearly show attitude calculated from p,q and r. It would have been obvious to a person having ordinary skill in the art of monitoring aircraft activity at the time the invention was made to modify Sicre et al by using p,q and r rates to determine an aircrafts attitude as taught by Doty for the purpose of observing or determining an aircrafts demeanor since p,q and r (yaw, pitch, roll) are parameters needed to determine an aircrafts attitude.

Allowable Subject Matter

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Claim 15 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The cited prior art does not disclose nor suggest synthetically generating a corrected attitude by generating a difference between the attitude obtained from the integration routine and an error signal that represents the error between the integrated attitude and an the reference attitude.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre J. Allen whose telephone number is 703-3081989. The examiner can normally be reached on mon-fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 703·305·4816. The fax phone number for the organization where this application or proceeding is assigned is 703·308·3432.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703·308·0956.

A.J.A Art Unit

EDWARD SEFROWITZ SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800